

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Birdsall, et al.

Appl. No.: Unassigned

Filed: On an even date herewith

For: Profiled Stent and Method Of Manufacture

Art Unit: Unassigned

Examiner: Unassigned

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Assistant Commissioner for Patents
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Preliminary Amendment

Preliminary to examination on the merits, Applicants amend the specification by inserting the following sentence before the specification: This application is a continuation of prior patent application, serial number 09/608,882 filed on June 3, 2000 which is a continuation of prior patent application serial number 08/702,258 filed on August 23, 1996.

In the Claims

Please cancel claims 2-19 in the prior application.

Please add the following new claims:

2. A stent comprising

at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top and bottom sides are substantially flat, and the left and rights sides are substantially curved.

3. The stent of claim 2 wherein the strut has a plurality of straight sections joined by a plurality of crown sections.

4. The stent of claim 2 wherein the strut is made of metal.

5. The stent of claim 4 wherein the strut is electro-polished.

6. The stent of claim 2 wherein the stent is fused to a second stent.

7. The stent of claim 2 wherein the second stent further comprises at least one second stent strut, the at least one second stent strut having a second stent transverse cross section, the second stent transverse cross section having a second stent top side, a second stent bottom side, a second stent right side and a second stent left side, wherein the second stent top and second stent bottom sides are substantially flat, and the second stent left and second stent right sides are substantially curved.

8. The stent of claim 2 wherein the cross section is ellipsoidal.

9. The stent of claim 2 wherein the cross section is elliptorectangular.

10. The stent of claim 2 wherein the stent is self expanding.

11. The stent of claim 2 wherein the bottom side joins the left side through a smooth rounded edge.

12. The stent of claim 2 wherein the top side joins the left side through a smooth rounded edge.

13. A system for treating a vessel lumen comprising:
a stent having a lumen there through;
a catheter at least partially extending through the lumen; wherein
the stent is fashioned from at least one strut, the at least one strut having a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top and bottom sides are substantially flat, and the left and right sides are substantially curved.

14. The stent of claim 13 wherein the catheter is a balloon catheter.

15. The stent of claim 13 wherein the cross section is ellipsoidal.

16. The stent of claim 13 wherein the bottom side joins the left side through a smooth rounded edge.

17. The stent of claim 13 wherein the top side joins the left side through a smooth rounded edge.

18. The stent of claim 13 wherein further comprising a second stent section, the second section coupled to the first section.

19. A stent comprising
at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top side joins the left and right sides through a smooth rounded edge, wherein the top side is substantially flat.

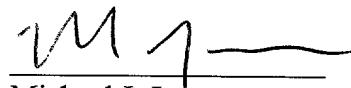
20. The stent of claim 13 wherein the bottom side is substantially flat.

21. The stent of claim 13 wherein the left and rights sides are substantially curved.

22. The stent of claim 13 wherein the left and rights sides are substantially flat.

23. The stent of claim 13 wherein the bottom side joins the left side through a smooth rounded edge.

Respectfully Submitted,


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